

## Custom Development

Functional Specification - Definition			
(Please do not modify the data in this table, it is set on the server using the Properties Page, then populated here)			
Phase	Analysis		
Start Date	January 1, 2001 12:00:00 AM PST	Stop Date	October 26, 2004
Priority	Medium	Deliverable ID	IIFPY039

Functional Specification - Header	
Associated Activity	N/A
Technical Design	N/A

### Related Documents

Please insert links to related Documents (Process Model Reference)

Related Document	Comment
FunDes Inbound Mapping_IIFPY039.xls	Inbound Interface Mapping Document

### Functional Specification Description

This is an Inbound Interface from the external agencies to SAP R/3. Each agency participating in updating their position's account coding / cost distribution information using a batch interface / update process will supply an interface file for processing in the SAP R/3 system. Agencies will send a file which will contain the updated account coding information for each position that requires changes.

This information will be used to automatically update the position accounting information in Infotype 1018 -Cost Distribution. The cost assignment data that is passed in the interface:

1. Personnel Area
2. Organization unit
3. Position number
4. Effective dates
5. Cost assignment data (business area, functional area, cost object, fund, cost center, project structure, allocation code) and percentage

A unique record exists for each position, cost assignment data structure, and percentage. Each unique position can consist of up to 12 cost assignments. This is a new interface format that is driven by SAP field types and lengths, and may require bridging by the agencies.

The agencies will place the inbound file on the secure FTP ValiCert server at DIS. DOP will retrieve the file from that server.

### ***Development Information***

Estimated Hours: 184

Tech Design - 38

Build & Test - 146

Estimated Production Date: 01/01/2005 for Group 1 agencies  
04/01/2005 for Group 2 agencies

Comments: None

Development Complexity (High/Medium/Low): Medium

### ***General Requirements***

Related RICEF Objects: Gap # 10 (OIFOM010 - Position Master Data Outbound Interface)

Assumptions:

1. Interface bridges will be built at the source systems to translate data into the format required by this interface.
2. Agency will install a client to push this file to the secure FTP ValiCert server at DIS.
3. This interface is typically run at the Biennium, which is July 1 of every odd-ending year. It is likely to run this first time in June 2005
4. Agencies make corrections to BDC errors by stepping through the load process using Transaction SM35
5. BDC will create the records every time the interface is generated, it will not update existing records and SAP will delimit the recorded as necessary.
6. On-site team will create batch job definitions and specify spool files and create variants.
7. There can be no more than twelve cost distributions per position and the percentage sum must equal 100%.

Audit/Checks:

1. The control totals for this interface are # of records and # of positions read, # or records successful, and # of records rejected. The audit report will include a date and time stamp.

Transaction Volume: 50,000 Records (Max)

Frequency (Annual/Bi-monthly, Daily, Hourly, Quarterly, Semi-Annual, Weekly, Monthly):  
At the Biennium and On Request

Processing Type (Batch/On-Line): Batch

Initiating Process:

An agency request is submitted via an online transaction to schedule an off-hours batch process.

Initiating Transaction/Program: N/A

Distribution: Three reports are produced from the Interface process:

Error Report,

Completed Report,

Not found / No Change Report

The reports are printed to the spool and the agency is informed via email about their availability.

Output (Online/Print/Spreadsheet): Print

Summary Level (Detail/Drill Down/Summary): Detail

Audience:

1. Production control for Audit report
2. Individual agencies for the Error Report, Completed Report, Not found / No Change Report

Module: OM (Organizational Management)

Retention Requirements: The input files will be retained for 31 days.

From System(s): Agencies

To System(s): SAP R/3



*Responsible Organizations*

	Name	Phone #	Location
Process Owner	Todd Jenkins	360-664-6372	DOP
Source System Contact	TBD	TBD	TBD
Destination System Contact	Todd Jenkins	360-664-6372	DOP

*Existing / Sample Programs, Reports, & Forms*

Job/Program Name:

- E2039111
- E2139111

Menu / Transaction:

- CA7 Schedule controlled

Legacy Report/Form Number:

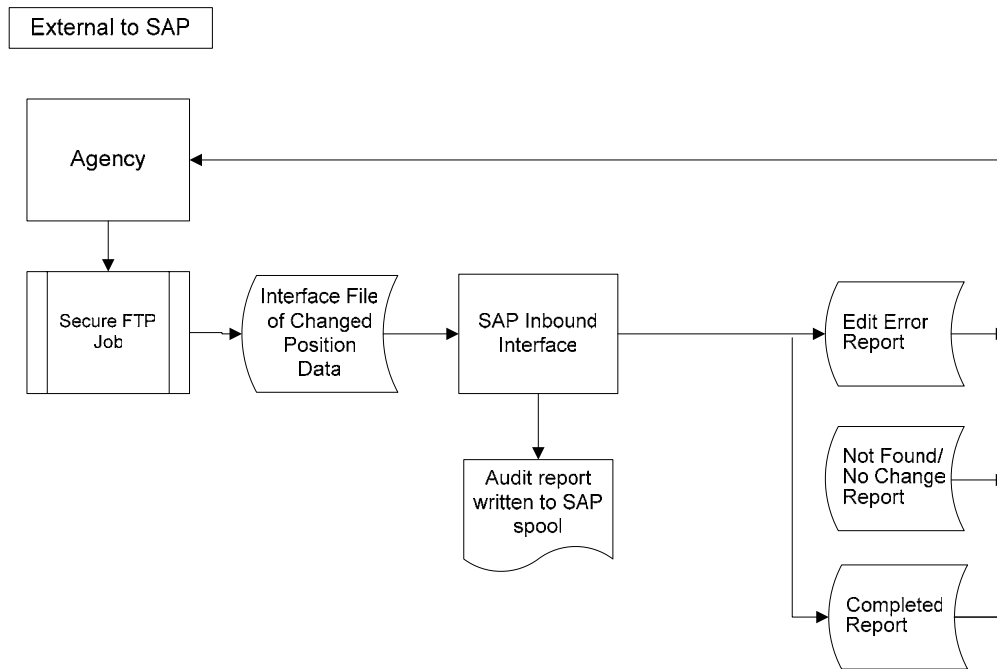
- HRISD-B3723-R01 & HRISD-B3725-R01 & HRISD-B3727

Interface File Name:

- INP111.P.AGYNUM.P.BIEN.POS.ACCT

## Design

Process Flow Diagram (insert link or paste Visio schematic):



## Detailed Description:

The Agency will supply a Position accounting / cost assignment interface file through secure FTP process. The file is loaded to SAP R/3 by running this interface process. As the interface file is processing, if any changes made to the existing records in SAP, the previous records will be delimited and a new record will be created based on the Effective Date.

1. Read the inbound file.
  - o If the input file is corrupted or no data found, write to the Audit log and end program.
2. Load the data from the input file.
3. Valid all records.
  - a. Compare file detail records to file header totals
    - Does not match: Reject file, update audit log/report and end program
  - b. Read PLANS (Positions) based on the Organization Unit and Object ID.
    - Does not exist: write record to the "Not Found / No Change" report.

- c. Check personnel area and position match
  - If not, send to error report
- d. Check for valid start/end dates
  - Not blank
  - End date not = 12/31/9999
  - Dates match for all records for each unique position record
  - Dates are within the Positions's effective date
  - If not valid, send to error report
- e. Check that there are 12 or less cost distribution percentages for each unique position and sum the percentage values
  - If > 12 records or percentage is not = 100, reject all of the position cost records and send to error report
- f. Compare the file position records with the existing SAP record.
  - If no changes found, write to the "Not Found / No Change" report.
  - If the current record begin date overlaps new record dates, reject all of the position cost records and send to error report
  - Future records can be over written
- g. Calculate the percentage of the number of error records to the total number of records in file.
  - If the percentage of total errors records exceed the error threshold entered as a variant parameter, reject file, update audit log/report and end program
4. Create a BDC session for all valid records using the session name entered in the variant parameter
  - Convert all dates to SAP entry format
  - Each position has a BDC record and should contain
    - Transaction <PP02>, create mode only
    - Plan version: 01,
    - Object Type "S"
    - Object Id (Position): xxxx
    - Select Infotype: "1018"
    - Select Planning Status: "1" Active
    - Fill the Start and End from file: xx/xx/xxxx
    - <F5> to create (record is updated with the changes from the effective date and the old record is delimited.)
    - Fill the appropriate cost distribution fields:
      - HRT1018-FKBER      Function Area
      - HRT1018-KSTRG      Cost Object
      - HRT1018-FINCODE    Fund
      - HRT1018-KOSTL      Cost Center

- HRT1018-ZZPROJ    AFRS Project
  - HRT1018-ZZALLOC   AFRS Allocation Code
  - HRT1018-PROZT     Percentage
  - <F11> to save
5. All the successfully changed records are written to the “Completed” report section and the number of records is written to the Audit report.
  6. Any records that the position data does not exist in SAP or there are “No changes” to update are written to “Not Found/No change” report and number of records is written to the Audit report.
  7. Any Records with insufficient or invalid data are written to “Edit Errors Identified” report section and number of records is written to the Audit report.
  8. These reports are written to the SAP spool for agency printing.
    - The same report layout is used for all three report sections which are specified in a separate file. Note that the position/cost start and end dates and cost percentage will be added to the report
    - All file fields will be displayed in the report and a Comments column will be used for record status or error message.

Performance Considerations: None

Security Requirements: None

Mapping: FunDes Inbound Mapping\_IIFPY039.xls

Design Constraints: None

Report Layout:

Audit Report

<p>Washington State Department of Personnel Biennium Position Update Layout Inbound Interface Audit Report</p>
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<p>Run date:    06-04-2004</p>
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Message1	Message2	Message3
Records Received:	###,###	
Positions Received :	###,###	
Number of Completed records:	###,###	
Number of Errors Records:	###,###	
Number of Not Found /No Change Records:	###,###	

\* Note that additional messages maybe displayed depending on the validation errors

Output report layouts are defined in the separate files below.

- [Completed\\_Report\\_GAP39\\_.vsd](#)
- [Error\\_Report\\_GAP39\\_.vsd](#)
- [Notfound\\_Notchanged\\_Report\\_GAP39\\_.vsd](#)

Selection Criteria:

1. BDC Session Name
2. Error Percentage Threshold
3. Inbound file name and location

Main Heading: N/A

Sub Heading: N/A

Totaling: N/A

Sorting: N/A

Page Breaks: N/A

Extraction Method (IDOC / Custom ABAP): N/A

Extract File Layout: N/A

Load Method (IDOC/BDC/Direct Table Update): BDC

Load File Layout: see Mapping section

Interface Type: Inbound



Post Interface Activities:

1. Review the interface audit report for successful completion.
2. Job to kick off BDC session
3. Job to send email notification to the Agency to print Error Report, Completed Report, Not Found / No change Report from the SAP spool.
4. Agencies make corrections to BDC errors by stepping through the load process.
5. Agencies send subsequent file(s) to reprocess data found on previous Error Reports(s).

**Testing Requirements**

1. Missing Infotype 1018 records should generate an error to the audit file.

**Error Handling:**

Potential Errors:

If the Interface ends abnormally, then it is executed again.

Notification Procedures:

Internal – HRISD production services checks interface batch job status and reviews audit logs as part of normal operating procedures.

External – An email is sent to the requesting agency when agency reports are generated and exist on the SAP print spool.

***Outstanding Issues or Questions:***

Can the three reports, Error Report, Completed Report, and Not Found/ No Change Report, be combined into one report? Resolution: Yes. The three reports will be generated within the program at one time. This, however, does not impact the layout of the reports or the data contained within.

**Revision History**

<u>Date</u>	<u>Section</u>	<u>Description of change</u>
8/2/2004	Functional Specification Description	Modified
8/2/2004	General Requirements	Assumptions modified
8/2/2004	General Requirements	Initiating transaction process modified
8/2/2004	Design	Process flow diagram updated
8/2/2004	Design	Detailed description expanded
8/2/2004	Design	Report Layout modified
7/7/2004	Design	Post Interface Activities modified
7/12/2004	Outstanding Issues or Questions	Resolution added
10/21/2004	Functional Specification Requirements & Design	Updated changes identified through the FD walkthrough and the Interface Workshop on 9/24/2004 and follow up resolutions. Also, implemented the data type documentation standards for file fields
12/16/04	Mapping	SIR831: Mapping doc updated to add FUND.